chain nodes :
    6   7   15
ring nodes :
    1   2   3   4   5   8   9   10   11   12   13
chain bonds :
    2-7   3-6   4-8   5-15
ring bonds :
    1-2   1-5   2-3   3-4   4-5   8-9   8-13   9-10   10-11   11-12   12-13
exact/norm bonds :
    1-2   1-5   2-3   2-7   3-4   3-6   4-5   5-15
exact bonds :
    4-8
normalized bonds :
    8-9   8-13   9-10   10-11   11-12   12-13

G1:O,S

Match level :
    1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:CLASS   7:CLASS   8:Atom   9:Atom
    10:Atom   11:Atom   12:Atom   13:Atom   15:CLASS

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * *   Welcome to STN International   * * * * * * * * * *

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NEWS  1              Web Page for STN Seminar Schedule - N. America
NEWS  2   AUG 06     CAS REGISTRY enhanced with new experimental property tags
NEWS  3   AUG 06     FSTA enhanced with new thesaurus edition
NEWS  4   AUG 13     CA/CAplus enhanced with additional kind codes for granted
                     patents
NEWS  5   AUG 20     CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS  6   AUG 27     Full-text patent databases enhanced with predefined
                     patent family display formats from INPADOCDB
NEWS  7   AUG 27     USPATOLD now available on STN
NEWS  8   AUG 28     CAS REGISTRY enhanced with additional experimental
                     spectral property data
NEWS  9   SEP 07     STN AnaVist, Version 2.0, now available with Derwent
                     World Patents Index
NEWS 10   SEP 13     FORIS renamed to SOFIS
NEWS 11   SEP 13     INPADOCDB enhanced with monthly SDI frequency
NEWS 12   SEP 17     CA/CAplus enhanced with printed CA page images from
                     1967-1998
NEWS 13   SEP 17     CAplus coverage extended to include traditional medicine
                     patents
NEWS 14   SEP 24     EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 15   OCT 02     CA/CAplus enhanced with pre-1907 records from Chemisches
                     Zentralblatt
NEWS 16   OCT 19     BEILSTEIN updated with new compounds
NEWS 17   NOV 15     Derwent Indian patent publication number format enhanced
NEWS 18   NOV 19     WPIX enhanced with XML display format
NEWS 19   NOV 30     ICSD reloaded with enhancements
NEWS 20   DEC 04     LINPADOCDB now available on STN
NEWS 21   DEC 14     BEILSTEIN pricing structure to change
NEWS 22   DEC 17     USPATOLD added to additional database clusters
NEWS 23   DEC 17     IMSDRUGCONF removed from database clusters and STN
NEWS 24   DEC 17     DGENE now includes more than 10 million sequences
NEWS 25   DEC 17     TOXCENTER enhanced with 2008 MeSH vocabulary in
                     MEDLINE segment
NEWS 26   DEC 17     MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS 27   DEC 17     CA/CAplus enhanced with new custom IPC display formats
NEWS 28   DEC 17     STN Viewer enhanced with full-text patent content
                     from USPATOLD
NEWS 29   JAN 02     STN pricing information for 2008 now available
NEWS 30   JAN 16     CAS patent coverage enhanced to include exemplified
                     prophetic substances
NEWS 31   JAN 28     USPATFULL, USPAT2, and USPATOLD enhanced with new
                     custom IPC display formats
NEWS 32   JAN 28     MARPAT searching enhanced
NEWS 33   JAN 28     USGENE now provides USPTO sequence data within 3 days
                     of publication
NEWS 34   JAN 28     TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 35   JAN 28     MEDLINE and LMEDLINE reloaded with enhancements

NEWS EXPRESS   19 SEPTEMBER 2007:   CURRENT WINDOWS VERSION IS V8.2,
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CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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NEWS IPC8   For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 15:12:01 ON 01 FEB 2008

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COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

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DICTIONARY FILE UPDATES: 31 JAN 2008   HIGHEST RN 1001228-41-6

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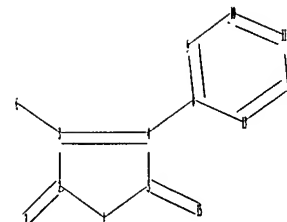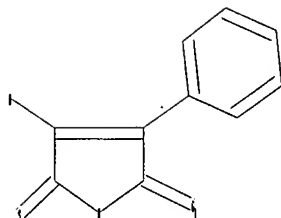TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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experimental property data in the original document. For information
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http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10.563676\form1-corrected.str

chain nodes :
6   7   15
ring nodes :
1   2   3   4   5   8   9   10   11   12   13
chain bonds :
2-7   3-6   4-8   5-15
ring bonds :
1-2   1-5   2-3   3-4   4-5   8-9   8-13   9-10   10-11   11-12   12-13
exact/norm bonds :
1-2   1-5   2-3   2-7   3-4   3-6   4-5   5-15
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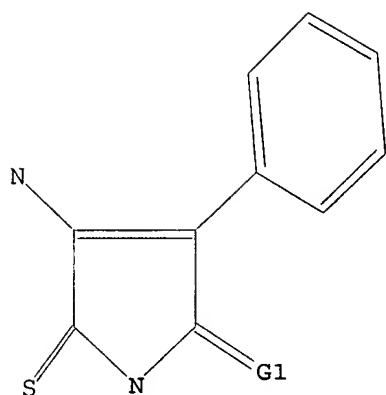

G1:O,S

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:CLASS   7:CLASS   8:Atom   9:Atom   10:Atom   11:Atom
12:Atom   13:Atom   15:CLASS

L1   STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1   STR

G1 O,S

Structure attributes must be viewed using STN Express query preparation.


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=> s l1 sss sam
SAMPLE SEARCH INITIATED 15:12:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        1 TO ITERATE

100.0% PROCESSED        1 ITERATIONS                        1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:              1 TO       80
PROJECTED ANSWERS:                 1 TO       80

L2              1 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 15:12:41 FILE 'REGISTRY'
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100.0% PROCESSED       28 ITERATIONS                       21 ANSWERS
SEARCH TIME: 00.00.01

L3             21 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
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FULL ESTIMATED COST                          178.36        178.57

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FILE LAST UPDATED: 31 Jan 2008   (20080131/ED)

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L4   2 L3
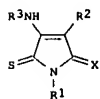
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L4   ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:55230 CAPLUS
DOCUMENT NUMBER: 142:155810
TITLE: Preparation of pyrrole-2,5-dithione derivatives as
                             liver X receptor modulators
INVENTOR(S):   Holm, Patrik
PATENT ASSIGNEE(S):   Astrazeneca AB, Swed.
SOURCE: PCT Int. Appl., 64 pp.
                             CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

     PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
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     WO 2005005416   A1   20050120   WO 2004-SE1115   20040708
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
           CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
           GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
           LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
           NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
           TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
           AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
           EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
           SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
           SN, TD, TG
     AU 2004256000   A1   20050120   AU 2004-256000   20040708
     AU 2004256000   B2   20070726
     CA 2532068   A1   20050120   CA 2004-2532068   20040708
     EP 1646625   A1   20060419   EP 2004-749151   20040708
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
           IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
     CN 1820003   A   20060816   CN 2004-80019719   20040708
     BR 2004012479   A   20060919   BR 2004-12479   20040708
     JP 2007521313   T   20070802   JP 2006-520139   20040708
     NO 2006000080   A   20060208   NO 2006-80   20060105
     US 2006189663   A1   20060824   US 2006-563676   20060105
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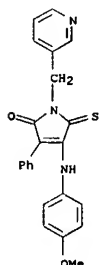
OTHER SOURCE(S):   CASREACT 142:155810; MARPAT 142:155810
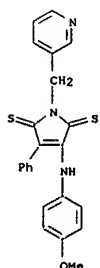GI

AB   The present invention relates to novel compds. I [R1 = (un)substituted
      phenylalkyl, heteroarylalkyl, alkyl; R2 = Ph; R3 = (un)substituted Ph,
      indolyl, benzofuranyl, etc.; X = O, S], to processes for preparing such
      compds., to their utility in modulation of nuclear hormone receptors Liver
      X Receptor (LXR) α (NR1H3) and/or β (NR1H2) and in treating
      clin. conditions including cardiovascular diseases such as

L4   ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN   (Continued)

RN   828938-27-8 CAPLUS
CN   2H-Pyrrol-2-one, 1,5-dihydro-4-[(4-methoxyphenyl)amino]-3-phenyl-1-(3-
      pyridinylmethyl)-5-thioxo- (CA INDEX NAME)

RN   828938-28-9 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 3-[(4-methoxyphenyl)amino]-4-phenyl-1-(3-
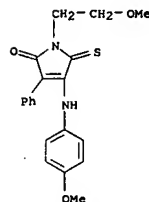   pyridinylmethyl)- (CA INDEX NAME)

RN   828938-29-0 CAPLUS
CN   2H-Pyrrol-2-one, 1,5-dihydro-4-[(4-methoxyphenyl)amino]-3-phenyl-1-(4-
      pyridinylmethyl)-5-thioxo- (CA INDEX NAME)

L4   ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN   (Continued)
      atherosclerosis, inflammatory diseases, Alzheimer's disease, lipid
      disorders (dyslipidemias) whether or not assocd. with insulin resistance,
      type 2 diabetes and other manifestations of the metabolic syndrome, to
      methods for their therapeutic use and to pharmaceutical compns. contg.
      them. Prepn. of twenty compds. I is described. E.g., a multi-step
      synthesis of I (X = O; R1 = 2-methoxyethyl; R2 = Ph; R3 = 4-MeOC6H4),
      starting from phenylmaleic anhydride, was given. The compds. I have an
      EC50 of < 50μM/L for LXRα and/or β in coactivator
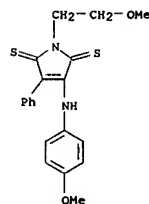   recruitment assays and/or reporter gene assays.
IT   828938-25-6P 828938-26-7P 828938-27-8P
      828938-28-9P 828938-29-0P 828938-30-3P
      828938-31-4P 828938-32-5P 828938-33-6P
      828938-34-7P 828938-35-8P 828938-36-9P
      828938-37-0P 828938-38-1P 828938-39-2P
      828938-40-5P 828938-41-6P 828938-42-7P
      828938-43-8P 828938-44-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
      (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
      (Uses)
      (preparation of pyrrole-2,5-dithiones as liver X receptor modulators)
RN   828938-25-6 CAPLUS
CN   2H-Pyrrol-2-one, 1,5-dihydro-1-(2-methoxyethyl)-4-[(4-methoxyphenyl)amino]-
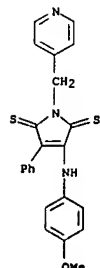   3-phenyl-5-thioxo- (CA INDEX NAME)

RN   828938-26-7 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 1-(2-methoxyethyl)-3-[(4-methoxyphenyl)amino]-4-
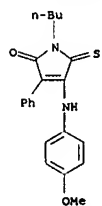   phenyl- (CA INDEX NAME)

RN   828938-30-3 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 3-[(4-methoxyphenyl)amino]-4-phenyl-1-(4-
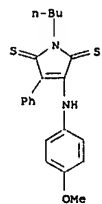   pyridinylmethyl)- (CA INDEX NAME)

RN   828938-31-4 CAPLUS
CN   2H-Pyrrol-2-one, 1-butyl-1,5-dihydro-4-[(4-methoxyphenyl)amino]-3-phenyl-5-
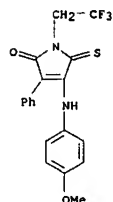   thioxo- (CA INDEX NAME)

RN   828938-32-5 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 1-butyl-3-[(4-methoxyphenyl)amino]-4-phenyl- (CA
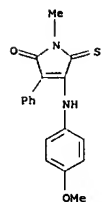   INDEX NAME)

RN   828938-33-6 CAPLUS
CN   2H-Pyrrol-2-one, 1,5-dihydro-4-[(4-methoxyphenyl)amino]-3-phenyl-5-thioxo-
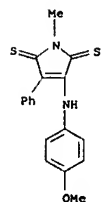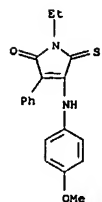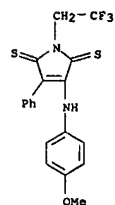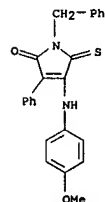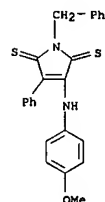   1-(2,2,2-trifluoroethyl)- (CA INDEX NAME)

RN   828938-34-7 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 3-[(4-methoxyphenyl)amino]-4-phenyl-1-(2,2,2-
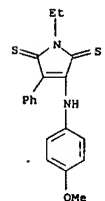
RN   828938-35-8 CAPLUS
CN   2H-Pyrrol-2-one, 1,5-dihydro-4-[(4-methoxyphenyl)amino]-3-phenyl-1-
     (phenylmethyl)-5-thioxo- (CA INDEX NAME)

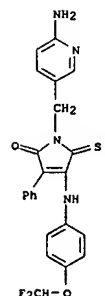RN   828938-36-9 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 3-[(4-methoxyphenyl)amino]-4-phenyl-1-
     (phenylmethyl)- (CA INDEX NAME)

RN   828938-37-0 CAPLUS
CN   2H-Pyrrol-2-one, 1,5-dihydro-4-[(4-methoxyphenyl)amino]-1-methyl-3-phenyl-
     5-thioxo- (CA INDEX NAME)

RN   828938-38-1 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 3-[(4-methoxyphenyl)amino]-1-methyl-4-phenyl-
     (CA INDEX NAME)

RN   828938-39-2 CAPLUS
CN   2H-Pyrrol-2-one, 1-ethyl-1,5-dihydro-4-[(4-methoxyphenyl)amino]-3-phenyl-5-
     thioxo- (CA INDEX NAME)

RN   828938-40-5 CAPLUS
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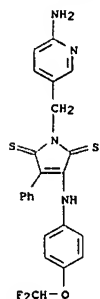
RN   828938-41-6 CAPLUS
CN   2H-Pyrrol-2-one, 1-[(6-amino-3-pyridinyl)methyl]-4-[[4-
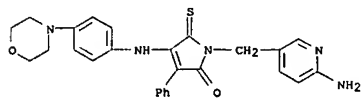   (difluoromethoxy)phenyl]amino]-1,5-dihydro-3-phenyl-5-thioxo- (CA INDEX
     NAME)

RN   828938-42-7 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 1-[(6-amino-3-pyridinyl)methyl]-3-[[4-
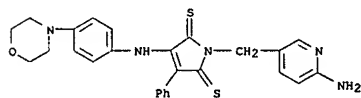   (difluoromethoxy)phenyl]amino]-4-phenyl- (CA INDEX NAME)

RN   828938-43-8 CAPLUS
CN   2H-Pyrrol-2-one, 1-[(6-amino-3-pyridinyl)methyl]-1,5-dihydro-4-[[4-(4-morpholinyl)phenyl]amino]-3-phenyl-5-thioxo-   (CA INDEX NAME)
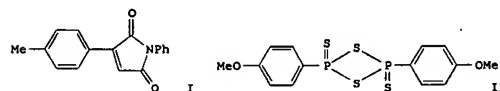

RN   828938-44-9 CAPLUS
CN   1H-Pyrrole-2,5-dithione, 1-[(6-amino-3-pyridinyl)methyl]-3-[[4-(4-morpholinyl)phenyl]amino]-4-phenyl-   (CA INDEX NAME)
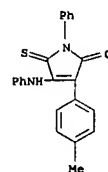

REFERENCE COUNT: 2   THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB   C-Substituted maleimides, e.g. I, are thiated with the reagent II in
      toluene or xylene. Monothiation at the nonequivalent carbonyl groups
      occurs in a regiospecific way. Maleimides with 4-methylphenyl or
      dialkylamino groups are attacked on the carbonyl function which is far
      from the C-substituent and give the monothio compds. The thiation of
      maleimides with NH-groups on the double bond primary occurs on the
      neighboring carbonyl group in the neighborhood, which further react to the
      violet dithiomaleimides.
IT   94740-68-8P
      RL: SPN (Synthetic preparation); PREP (Preparation)
          (preparation of)
RN   94740-68-8 CAPLUS
CN   2H-Pyrrol-2-one, 1,5-dihydro-3-(4-methylphenyl)-1-phenyl-4-(phenylamino)-5-
      thioxo- (CA INDEX NAME)

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=> log hold
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY      SESSION
FULL ESTIMATED COST                                  13.78       192.35

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                     ENTRY      SESSION
CA SUBSCRIBER PRICE                                  -1.60        -1.60

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